

Anna Kazeykina

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Born July 11, 1988

Professional experience

Assistant professor, University Paris Sud, 2013-present

Teaching assistant, Ecole Polytechnique, 2012-2013

Education

PhD in Applied Mathematics, Ecole Polytechnique, 2010-2012

Thesis "Solitons and asymptotic behavior of solutions at large times for the Novikov-Veselov equation" under the direction of Prof. R.G. Novikov.

Defended on December 3, 2012 in front of the jury composed of Anne de Bouard, Jean-Pierre François, François Golse (president), Sergei Kuksin, Roman Novikov, Jean-Claude Saut (reviewer), Alexander Veselov (reviewer); note: very honorable.

Integrated bachelor and master in applied mathematics and computer science, Lomonosov Moscow State University, 2005-2010

Master thesis "Study of asymptotic behavior of the solution to the Cauchy problem for the Korteweg-de Vries–Burgers equation" under the direction of Prof. A.A. Shananin.

Research interests

Nonlinear PDEs, integrable equations, asymptotic behavior, Cauchy problem, traveling waves, solitons, scattering transform method, inverse problems.

Publications

1. Kazeykina A., Klein C.: Numerical study of blow-up and stability of line solitons for the Novikov-Veselov equation. [arxiv:1607.01987](https://arxiv.org/abs/1607.01987) (2016)
2. Kazeykina A., Muñoz C.: Dispersive estimates for rational symbols and local well-posedness of the nonzero energy NV equation. II. [arxiv:1603.06600](https://arxiv.org/abs/1603.06600) (2016)
3. Kazeykina A., Muñoz C.: Dispersive estimates for rational symbols and local well-posedness of the nonzero energy NV equation. *Journal of Funct. Anal.*, 270(5), 1744-1791 (2016)
4. Kazeykina A.V.: Absence of solitons with sufficient algebraic localization for the Novikov-Veselov equation at nonzero energy. *Funct. Anal. Appl.*, 48(1), 24-35 (2014)

5. Kazeykina A.V.: Absence of traveling wave solutions of conductivity type for the Novikov-Veselov equation at zero energy. *Funct. Anal. Appl.*, 47(1), 64-66 (2013)
6. Kazeykina A.V.: A large time asymptotics for the solution of the Cauchy problem for the Novikov-Veselov equation at negative energy with nonsingular scattering data. *Inverse Problems*, 28(5), 055017 (2012)
7. Kazeykina A.V., Novikov R.G.: Absence of exponentially localized solitons for the Novikov-Veselov equation at negative energy. *Nonlinearity*. 24, 1821-1830 (2011)
8. Kazeykina A.V., Novikov R.G.: Large time asymptotics for the Grinevich-Zakharov potentials. *Bulletin des Sciences Mathematiques*. 135, 374-382 (2011)
9. Kazeykina A.V., Novikov R.G.: A large time asymptotics for transparent potentials for the Novikov-Veselov equation at positive energy. *J. Nonlinear Math. Phys.* 18(3), 377-400 (2011)
10. Kazeykina A.V.: Examples of the absence of a traveling wave for the generalized Korteweg-de Vries-Burgers equation. *Moscow University Computational Mathematics and Cybernetics*. 35(1), 14-21 (2011)
11. Kazeykina A. V.: Stability of a traveling-wave solution of the Cauchy problem for the Korteweg-de Vries-Burgers equation. *Comput. Math. Math. Phys.* 50(4), 690-710 (2010)
12. Huang J., Kazeykina A.: Optimal strategies for reviewing search results. In proceedings of AAAI 2010. 1321-1326 (2010)
13. Bansal N., Jain K., Kazeykina A., Naor J.: Approximation algorithms for diversified search ranking. In proceedings of ICALP 2010. 273-284 (2010)

Conference Presentations

Quasilinear equations, inverse problems and their applications. Moscow Institute of Physics and Technology, Russia, November 2015

57th Scientific Conference of the Moscow Institute of Physics and Technology. Moscow Institute of Physics and Technology, Russia, November 2014

Asymptotic analysis of dispersive partial differential equations. Pienza, Italy, October 2014

Scattering and Inverse Scattering in Multidimensions. University of Kentucky, USA, May 2014

Exceptional Circle Helsinki Workshop 2013. Finland, August 2013

PDE Days 2013. France, June 2013

Inverse Problems and Nonlinear Equations. France, May 2013

Nonlinear Partial Differential Equations: Theory and Applications to Complex Systems. International conference in the honor of Hiroshi Matano. France, June 2012

Young Women in PDEs. Germany, May 2012

Inverse Problems, Control and Form Optimization. France, April 2012

54th Scientific Conference of the Moscow Institute of Physics and Technology. Russia, November 2011

Inverse Problems and Applications. France, September 2011

53th Scientific Conference of the Moscow Institute of Physics and Technology. Russia, November 2010
24th AAAI Conference on Artificial Intelligence. USA, July 2010

Seminar Talks

Seminar of CAPDE (Center for Analysis of PDEs), University of Chile, Chile, July 2015
Seminar "Numerical analysis and PDEs", Université Paris-Sud, France, March 2015
Seminar "Mathematical Physics", Université de Dijon, November 2014
Seminar "Mathematical Physics", Université Lille 1, October 2014
Seminar "Geometry, PDEs and Mathematical Physics", Université de Cergy-Pontoise, France, February 2013
Seminar "Numerical Analysis and PDEs", Université Paris-Sud, France, January 2013
Seminar "Quasilinear equations and inverse problems", Dorodnicyn Computing Center of the Russian Academy of Sciences, Russia, July 2012
Seminar of the Mechanics Department, Steklov Mathematical Institute of the Russian Academy of Sciences, March 2012
Seminar of the Chair of Differential Equations at the Faculty of Mathematics and Mechanics, Lomonosov Moscow State University, November 2011
Seminar "Quasilinear equations and inverse problems", Dorodnicyn Computing Center of the Russian Academy of Sciences, Russia, July 2011
Seminar of Centre des Mathématiques Appliquées, Ecole Polytechnique, France, February 2011

Academic Visits and Internships

Academic visitor, University of Chile, Santiago, Chile, July 2015
Academic visitor, DAMTP, Cambridge University, Cambridge, England, January-March 2012
Several academic visits to the Moscow State University, 2010-2012
Research internship, CMAP, Ecole Polytechnique, Palaiseau, France, April-July 2010
Research internship, Theory Group, Microsoft Research, Redmond, USA, June-September 2009

Teaching

Exercice sessions in Functional Analysis for master students, ENSTA, 2015
Exercice sessions in Linear Algebra for undergraduate students, University Paris Sud, 2015
Exercise sessions in Mathematical Analysis, Differential Equations and Evolution Problems for undergraduate and master students, University Paris Sud, 2013-2016
Participation in ParisMaths program for middle school and high school students, from 2013

Practical sessions for the 2nd year students for the course “Numerical analysis and optimisation”, Ecole Polytechnique, 2012-2013

Optional course in FreeFem++ at Ecole Polytechnique, spring 2013

Organisation and correction of Moscow Mathematical Olympiad, 2011

Examinator at written and oral exams at Moscow State University, 2010-2011

Other activities

Invited Reviewer for Inverse Problems, Communications in Mathematical Physics, Nonlinearity, Journal of Dynamics and Differential Equations, Journal of Applied Mathematics and Physics (ZAMP), Journal of Physics A: Mathematical and Theoretical, Journal of Inverse and Ill-Posed Problems, Mathematical Reviews (MathSciNet)

Member of selection committee for the position of assistant professor at Université Toulouse III in 2016 and at Université de Dijon in 2015

Alternate member of CCSU (Commission Consultative des Spécialistes de l'Université) of mathematical laboratory of Université Paris Sud, from 2014

Last updated: July 8, 2016